

ABSTRACT

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The present invention aims at providing a moving member for a surface acoustic wave actuator which undergoes little change of phase under the action of a pressing force and which can improve the drive efficiency of the surface acoustic wave actuator, as well as a surface acoustic wave actuator using the moving member. For achieving this object, projection-arranged portions and gap portions are formed in parallel with a surface acoustic wave propagating direction on a contact surface of the moving member for contact with a stationary member in such a manner that the ratio of the width of each of the projection-arranged portions to that of each of the gap portions is in the range of between 1:4 and 1:10. With this configuration, it is possible to suppress the influence of a phase change of a surface acoustic wave having passed the projection-arranged portions.

According to this configuration, moreover, it becomes possible to increase the pressing force for pushing the moving member against the stationary member and hence possible to increase the drive force. Thus, there is obtained a moving member for a surface acoustic wave actuator capable of attaining both saving of electric power and improvement of a drive force and hence capable of improving the drive efficiency of the actuator.